10000Hrs Long Life Aluminum Electrolytic Capacitor

SPKE02 10,000Hrs Series

- Used in energy-saving lamps, electronic ballast,switching power supply, industrial measuring instruments,automotive applications,etc.
- Higher frequency, High ripple current, High Temperature and High dependence;
- Load life 10000Hrs at 105℃, Safety vent construction design.
- For the special designing requirement,please contact us.

■ Specifications

Item	Performance Characteristics
Operating Temperature Range	-40 to +105℃
Rated Voltage Range	160 to 450VDC
Capacitance Range	1UF to 100uF
Capacitance Tolerance	±20%(120Hz,+20℃)
Leakage Current (+20℃,max)	I≤0.01CV or 3(uA) +10 (apply rated voltage for 2 minutes). I: Leakage Current(uA), C: normial capacitance(μF) V: Rated Voltage(v)
Dissipation Factor(tan δ .max)	Working Voltage(VDC) 200 250 350 400 450 tanδ 0.08 0.08 0.10 0.1 0.12 (+20℃,at 120Hz)
Temperature Characteristics (120Hz)	Working Voltage(VDC) 200 250 350 400 450 Z-40℃/Z+20℃ 5 5 7 7 7
Endurance	Test conditions Duration time : As right Ambient temperature : +105℃ Applied voltage : Rated DC working voltage After test requirements at +20℃ Capacitance change : ≤±30% of the initial measured value Dissipation factor : ≤300% of the initial specified value Leakage current : ≤200% of the initial specified value
Shelf Life(+125℃)	Test conditions Duration time : 1000Hrs Ambient temperature : +105℃ Applied voltage : None After test requirements at +20℃ : Same limits as Load life Pre-treatment for measurements shall be conducted after application of DC working voltage for 30 minutes

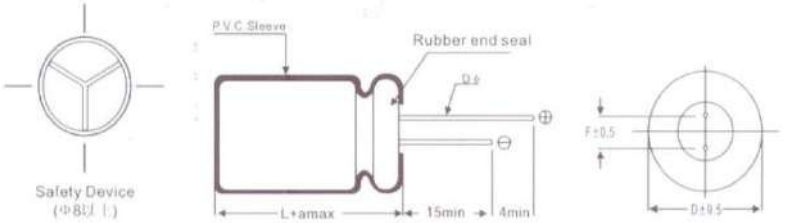
■ Multiplier for Ripple Current vs.Frequency

Frequency(Hz)	50	120	1k	10k~50k	100k
Multiplier	0.4	0.5	0.80	0.90	1.00

■ Multiplier for Ripple Current vs.Temperature

Temperature(℃)	≤60	85	105
Multiplier	2.1	1.4	1.00

■ Diagram of Dimensions:(unit:mm)



Dø	5	6.3	8	10	13	16	18
F	2.0	2.5	3.5	5.0	5.0	7.5	7.5
ød	0.5			0.6		0.8	
a	1.5			2.0			